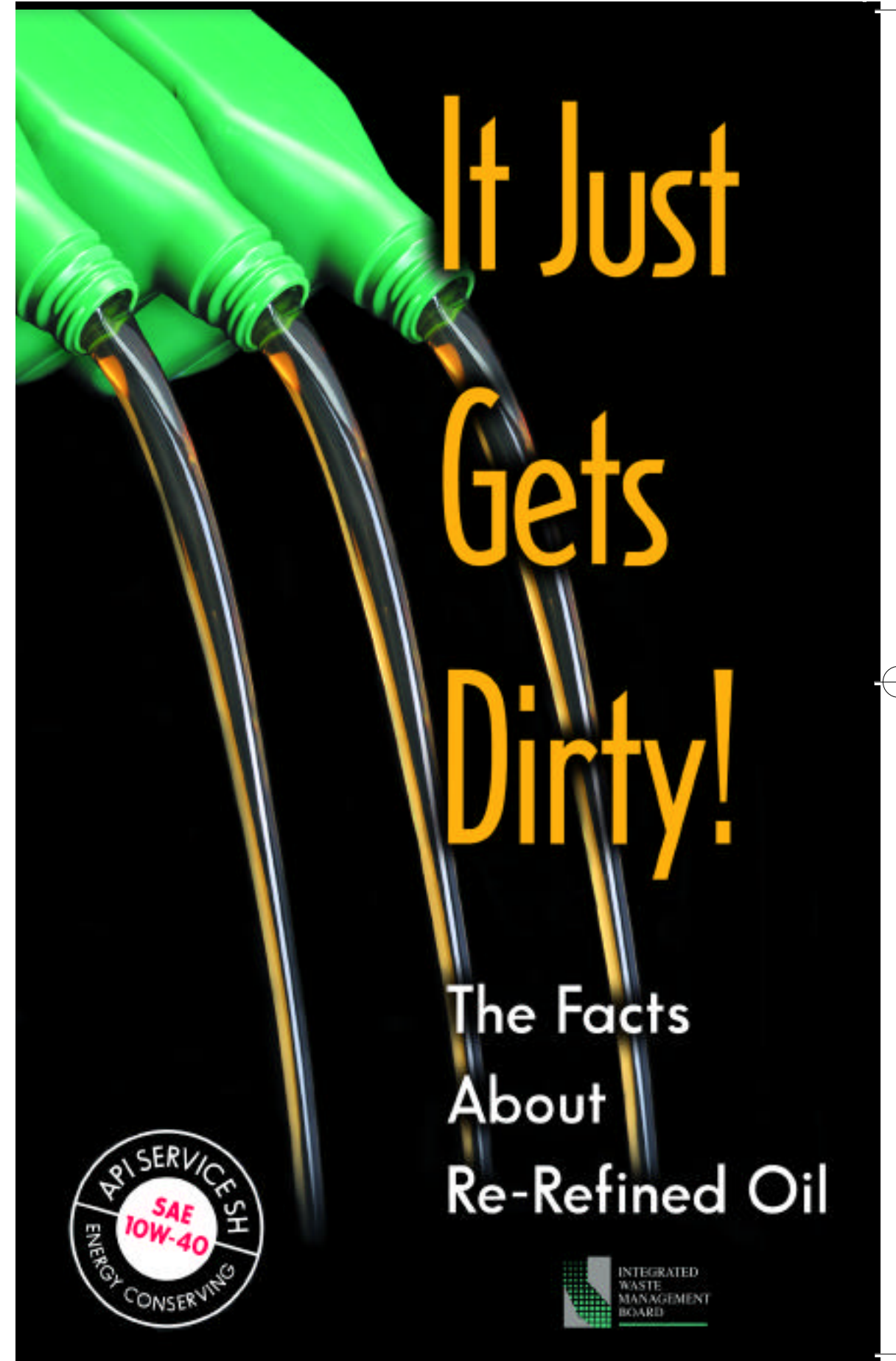




Publication 611-01-002



It's true...oil does not wear out, it just gets dirty. Re-refining takes dirty oil and turns it back into fresh, "good-as-new" oil that can be used in cars and trucks.

## What Is Re-Refined Oil?

Re-refined base oil is one end product from a used oil recycling process. First, contaminants such as dirt, water, fuel, and additives are removed through vacuum distillation. The oil is then hydrotreated to remove any remaining chemicals and impurities. The processes used are very similar to what traditional oil refineries do to produce virgin base oil from crude oil. Finally, the re-refined base oil is combined with a fresh additives package by the blender. Because the base oil does not wear out, it can be recycled over and over again.



Crude oil from the ground can be dirtier than used oil from a car!

## I Want To Purchase Re-Refined Oil. What's The Next Step?



Contact your regular supplier of lubricating oil and ask them to provide price and technical specifications for the re-refined oil they carry. If they don't carry re-refined oil, chances are their competitor does. For small quantity purchases of re-refined oil, visit your local Wal-Mart, Kragen, or Goodyear Service Center. Also inquire with other local retailers, auto parts stores, or service centers about carrying re-refined oil. State agencies, colleges and universities, correctional facilities, and local governments have the opportunity to purchase re-refined oil for their fleet vehicles through the State's Participation Purchasing Program. To learn more about this program, please contact Dianne Cordonia of the California Department of General Services at (916) 445-9476.

## NEED MORE INFORMATION ON RE-REFINED OIL?

For a free video and information packet on re-refined oil, call the Integrated Waste Management Board at (916) 341-6457.



Visit [www.ciwmb.ca.gov/UsedOil/Rerefined/](http://www.ciwmb.ca.gov/UsedOil/Rerefined/)

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## Does Re-Refined Oil Cost More?

No. There is no real price difference between re-refined and virgin oils. In fact, re-refined oil may sometimes be a few cents per quart cheaper. The final cost is dependent on factors such as the blend, quantity, and supplier.



## Who Sells Re-Refined Oil?

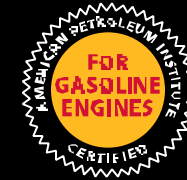
**Bulk Sales:** All of the blenders of re-refined oil, along with hundreds of independent distributors throughout the U.S., sell re-refined oil. It is widely available, but not widely marketed or promoted. A listing of several distributors of re-refined oil in California can be found on our Web site ([www.ciwmb.ca.gov/UsedOil/ReRefined/rerefiners-blenders.htm](http://www.ciwmb.ca.gov/UsedOil/ReRefined/rerefiners-blenders.htm)).



**Quart Sales:** The availability of re-refined oil in quart containers is limited. Unocal's "Firebird" brand and Safety-Kleen's "America's Choice" brand are produced in quarts. A few retailers, such as Wal-Mart and Kragen, carry re-refined oil. Many Goodyear Service Centers also carry re-refined oil for oil changes.

## Is Re-Refined Oil Just As Good As Virgin?

Yes. Test after test has shown that an American Petroleum Institute (API) certified re-refined oil is of equal quality to oil made from a virgin base stock. API certified re-refined oils must pass the same tests that virgin oils do, including cold start and pumpability, rust corrosion, engine wear, high temperature oil thickening, deposit, and phosphorous tests.

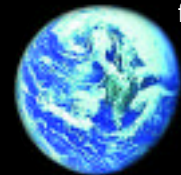


## Will Re-Refined Oil Affect My Warranty Or Hurt My Car Or Truck?



No and No. Vehicle manufacturers—such as Ford, GM, Chrysler, and Mercedes-Benz—have all gone on record to state that using API certified re-refined oil does not affect warranty coverage. In fact, Mercedes-Benz uses re-refined oil to fill new cars at their factories.

## Why Use Re-Refined Oil?



Re-refining is an energy-efficient and environmentally beneficial method of managing used oil. Less energy is required to recover a gallon of re-refined base stock than a base stock made from crude oil. Re-refined oil takes about one-third the energy of refining crude oil to lubricant quality. Rather than using the oil once, re-refining extends the life of a nonrenewable resource by using it again and again.

## How Many Times Can Oil Be Re-Refined?

Used oil can be re-refined over and over with no compromise in the quality of the lubricant. Remember: oil never wears out, it just gets dirty



## Who Re-Refines Oil?



There are two re-refineries in the U.S. that produce the base oil: Evergreen Oil in California and Safety-Kleen in Illinois. These two re-refineries take in only a small percentage of the total used oil generated in the United States.

## Who Blends Re-Refined Oil?



Unocal-76 Products, Chevron, Safety-Kleen, Coast Oil, Rosemead Oil, and Lyondell are the major blenders.

Typically, an oil blender will purchase base stock from the re-refinery and combine it with an additives package to meet specific performance requirements. Re-refined oil comes in a variety of blends suitable for different types of gas and diesel engines.

## Who Uses Re-Refined Oil?



Thousands of different cars, trucks, and fleets around the world. A few users include: Coca-Cola, United Parcel Service, Southern California Gas, Waste Management, the U.S. Postal Service, Frito-Lay, Caltrans, and the City of San Francisco. Re-refined oil is even used by some teams on the NASCAR race circuit.